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**Learning Style: On Demand**

**Technology: CompTIA**

**Difficulty: Beginner**

**Course Duration: 12 Hours**

## CompTIA Network+ (Exam N10-008)



### About the Course:

The course has been designed to provide the students with the knowledge as well as key skills needed for maintaining, installing, managing, operation, configuring, and troubleshooting basic network infrastructure, explain basic design principles along with networking technologies, use testing tools, and adhere to wiring

standards. If you wish to begin your network career, then this the first step, right here! The certification is recognized by different vendors like Novell, Microsoft, Red Hat, and Cisco within their certification tracks.

## **Course Objectives:**

- Comparing OSI Model Network Functions
- Deploying Ethernet Cabling
- Deploying Ethernet Switching
- Troubleshooting Ethernet Networks
- Explaining IPv4 Addressing
- Supporting IPv4 and IPv6 Networks
- Configuring and Troubleshooting Routers
- Explaining Network Topologies and Types
- Explaining Transport Layer Protocols
- Explaining Network Services
- Explaining Network Applications
- Ensuring Network Availability
- Explaining Common Security Concepts
- Supporting and Troubleshooting Secure Networks
- Deploying and Troubleshooting Wireless Networks
- Comparing WAN Links and Remote Access Methods
- Explaining Organizational and Physical Security Concepts
- Explaining Disaster Recovery and High Availability Concepts
- Applying Network Hardening Techniques
- Summarizing Cloud and Datacenter Architecture

## **Prerequisites:**

- Configure and support PC, laptop, mobile (smartphone / tablet), and print devices.
- Know basic network terminology and functions (such as Ethernet, TCP/IP, switches, routers).
- Configure and manage users, groups, and shared resources in a simple SOHO network.
- Understand the use of basic access control measures, such as authentication, security policy, encryption, and firewalls
- Understand TCP/IP addressing, core protocols and troubleshooting tools.

## **Course Outline:**

- Course Introduction
- Module 01: Comparing OSI Model Network Functions
  - Lesson 01: Compare and Contrast OSI Model Layers
  - Lesson 02: Configure SOHO Networks
- Module 02: Deploying Ethernet Cabling
  - Lesson 01: Summarize Ethernet Standard

- Lesson 02: Summarize Copper Cabling Types
- Lesson 03: Summarize Fiber Optic Cabling Types
- Lesson 04: Deploy Ethernet Cabling
- Module 03: Deploying Ethernet Switching
  - Lesson 01: Deploy Networking Devices
  - Lesson 02: Explain Network Interfaces
  - Lesson 03: Deploy Common Ethernet Switching Features
- Module 04: Troubleshooting Ethernet Networks
  - Lesson 01: Explain Network Troubleshooting Methodology
- Module 05: Explaining IPv4 Addressing
  - Lesson 01: Explain IPv4 Addressing Schemes
  - Lesson 02: Explain IPv4 Forwarding
  - Lesson 03: Configure IP Networks and Subnets
- Module 06: Supporting IPv4 and IPv6 Networks
  - Lesson 01: Use Appropriate Tools to Test IP Configuration
  - Lesson 02: Troubleshoot IP Networks
  - Lesson 03: Explain IPv6 Addressing Schemes
- Module 07: Configuring and Troubleshooting Routers
  - Lesson 01: Compare and Contrast Routing Concepts
  - Lesson 02: Compare and Contrast Dynamic Routing Concepts
  - Lesson 03: Install and Troubleshoot Routers
- Module 08: Explaining Network Topologies and Types
  - Lesson 01: Explain Network Types and Characteristics
  - Lesson 02: Explain Virtual LANs
- Module 09: Explaining Transport Layer Protocols
  - Lesson 01: Compare and Contrast Transport Protocols
  - Lesson 02: Use Appropriate Tools to Scan Network Ports
- Module 10: Explaining Network Services
  - Lesson 01: Explain the Use of Network Addressing Services
  - Lesson 02: Explain the Use of Name Resolution Services
- Module 11: Explaining Network Applications
  - Lesson 01: Explain the Use of Web, File/Print, and Database Services
  - Lesson 02: Explain the Use of Email and Voice Services
- Module 12: Ensuring Network Availability
  - Lesson 01: Explain the Use of Network Management Services
  - Lesson 02: Use Event Management to Ensure Network Availability
- Module 13: Explaining Common Security Concepts
  - Lesson 01: Explain Common Security Concepts
- Module 14: Supporting and Troubleshooting Secure Networks
  - Lesson 01: Compare and Contrast Security Appliances
  - Lesson 02: Troubleshoot Service and Security Issues
- Module 15: Deploying and Troubleshooting Wireless Networks
  - Lesson 01: Summarize Wireless Standards
  - Lesson 02: Install Wireless Networks
  - Lesson 03: Troubleshoot Wireless Networks
  - Lesson 04: Configure and Troubleshoot Wireless Security
- Module 16: Comparing WAN Links and Remote Access Methods
  - Lesson 01: Explain WAN Provider Links
  - Lesson 02: Compare and Contrast Remote Access Methods

- Module 17: Explaining Organizational and Physical Security Concepts
  - Lesson 01: Explain Organizational Documentation and Policies
  - Lesson 02: Explain Physical Security Methods
  - Lesson 03: Compare and Contrast Internet of Things Devices
- Module 18: Explaining Disaster Recovery and High Availability Concepts
- Module 19: Applying Network Hardening Techniques
  - Lesson 01: Compare and Contrast Types of Attacks
  - Lesson 02: Apply Network Hardening Techniques
- Module 20: Summarizing Cloud and Datacenter Architecture
  - Lesson 01: Summarize Cloud Concepts
  - Lesson 02: Explain Virtualization and Storage Area Network Technologies
  - Lesson 03: Explain Datacenter Network Architecture

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